# AN INDEX TO BOOK REVIEWS IN 1929

LEOPOLD SCHEFLAN, LONG ISLAND UNIVERSITY, BROOKLYN, NEW YORK

The following index has been compiled for two reasons. 1. To list the most important recently published books of interest to chemists. 2. To give references where information about these books may be obtained. In general references have been given for only those books which actually have been reviewed. An exception was made in the case of educational books because very few of them have been discussed critically in the standard chemical journals.

The index consists of two parts: (1) Subject Index and (2) Author Index. The Subject Index has been subdivided into the following sections.

**A: Analytical**
**B: Biological**
**C: General, Inorganic, and Physical**
**D: Engineering Chemistry and Chemical Engineering**
**E: Historical**
**F: Organic**
**G: Popular**
**H: Bibliographical**
**I: Educational**
**J: Physics**
**K: Miscellaneous Texts**

The Author Index follows the Subject Index and consists of an alphabetical list of the authors, each followed by the section letter, in boldface type, and item number in the Subject Index where the publication of the author may be found. For example:

ABDERHALDEN, E., **B**8 means that in Section **B: Biological,** item 8, will be found information, including title and references to reviews, concerning a publication of Abderhalden's.

The same book may be listed more than once in the same section or in several sections. In no case, however, are the complete title, the author's name, and the references given more than once. The cross references, which are printed in italics, are abbreviated and refer the reader to the complete reference.

The following journals have been consulted in the compilation of the index, the numbers in italics being used in the index to designate the corresponding journal.

(*1*) THIS JOURNAL, vol. **6.**
(*2*) *Journal of the American Chemical Society,* vol. **51.**
(*3*) *Journal of Physical Chemistry,* vol. **33.**
(*4*) *Industrial and Engineering Chemistry,* vol. **21.**
(*5*) *Chemical and Metallurgical Engineering,* vol. **36.**
(*6*) *Journal of the Association of Official Agricultural Chemists,* vol. **12.**

The abbreviations of the months used are: Ja, F, Mr, Ap, My, Je, Jy, Ag, S, O, N, D.

The following examples will indicate the form in which the items are indexed.

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The following examples will indicate the form in which the items are indexed.

### B: Biological

8 Biologischen Arbeitsmethoden, Handbuch der—(Handbook of Biological Methods), Vol. I, Part II, second half, E. ABDERHALDEN, (*2*)D3685, (*3*)Ja160.
9 *Biology and Colloid Chemistry—See* C11.

In item 8 the (*2*) refers to the *Journal of the American Chemical Society*, D to the December, 1929, issue of that journal, and the 3685 is the page number. Likewise, a review of Abderhalden's book appears in (*3*), the *Journal of Physical Chemistry*, in the January, 1929, issue, on page 160. In item 9, the **C**11 refers to Section **C: General, Inorganic, and Physical,** item 11, which happens to be in this case

11 Applied Colloid Chemistry, Theoretical and—, Vol. II, Biology and Medicine, J. ALEXANDER, (*3*)Ag1273, (*4*)F194, (*5*)Mr167.

It is planned to publish such an index every year. The compiler will appreciate greatly any criticism, corrections, and suggestions for improvement.

## SUBJECT INDEX

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1 *Alkaloids—See* **A**2.
2 Allan's Commercial Organic Analysis, 5th ed., Vol. VII, Vegetable Alkaloids, C. A. MITCHELL, (*4*)Jy709, (*5*)Jy432.
3 Calculations, Chemical, 2nd ed., J. S. LONG AND H. V. ANDERSON, (*1*)Ja177, (*4*)Ja94.
4 Calculations in Quantitative Chemical Analysis, J. A. WILKINSON, (*4*)Ja93.
5 *Chemical Calculations—See* **A**3, **C**167, and **K**5.
6 *Electrolytes—See* **A**33.
7 Gesteinsanalyse, Anleitung zur Chemischen—(Directions for the Chemical Analysis of Ores), J. JACOB, (*2*)Mr955.
8 Identification and Properties of the Common Metals and Non-Metals, J. E. BELCHER AND J. C. COLBERT, (*1*)My1006.
9 Inorganic Analysis with Especial Reference to the Analysis of Metals, Minerals, and Rocks, Applied—, W. F. HILLEBRAND AND G. E. F. LUNDELL, (*5*)D744.
10 Lumineszens-Analyse im Filtrierten Ultravioletten Licht. (Analysis by Means of Luminescence in Filtered Ultra-Violet Light), P. W. DANCKWORTT, (*2*) Mr958, (*4*) Mr294.
11 Do. 2nd ed., P. W. DANCKWORTT, (*2*)D3681, (*4*)D1304.
12 Medicine, Qualitative Analysis for Students of Pharmacy and—, C. B. JORDAN, (*1*)Mr593.
13 *Metals and Non-Metals—See* **A**8.
14 *Metals—See* **A**9.
15 *Minerals—See* **A**7.
16 *Minerals—See* **A**9.
17 Micro-Methods, Practical Chemistry by—, E. C. GREY, (*1*)S1600.
18 Mikromethoden zur automatischen Verbrennung Organischer Substanzen und Ebullioskopischen Molekulargewichtsbestimmung, Halb—(Semi-Micro Methods for the Combustion of Organic Substances and Boiling-Point Methods for the Determination of Molecular Weights), E. SUCHARDA AND B. BOBRANSKI, (*4*)My514.
19 *Molecular Weights—See* **A**18.

20 Nephelometry. Photometric Chemical Analysis. Vol. II, J. H. YOE AND H. KLEINMANN, (*1*)Jy1370, (*2*)Ag2593, (*3*)Ag1280, (*4*)My512, (*6*)N443.
21 *Non-Metals—See* **A8.**
22 *Organic Analysis—See* **A2.**
23 *Organic Combustion—See* **A18.**
24 Organischen, Qualitativen Analyse, Anleitung zur— (Directions for Qualitative Organic Analysis), H. STAUDINGER AND W. FROST, (*4*)N1151.
25 *Pharmacy—See* **A12.**
26 *Photometric Chemical Analysis—See* **A20.**
27 Qualitative Analysis, J. S. LONG, D. S. CHAMBERLAIN, AND H. V. ANDERSON, (*1*)D2309.
28 Qualitative Analysis, Elements of—, W. W. SCOTT, (*1*)Ja179.
29 Qualitative Analysis, Introductory—, J. CORNOG AND W. C. VOSBURGH, (*1*)Ja178.
30 *Qualitative Analysis—See* **A12.**
31 Qualitative Chemical Analysis, Introduction to—, D. P. SMITH AND H. K. MILLER, (*1*)Mr592.
32 *Qualitative Analysis—See* **A24.**
33 Qualitative Analysis, Solutions of Electrolytes, with Particular Application to—, L. P. HAMMETT, (*4*)D1303.
34 Quantitative Analysis, Analytical Chemistry, Vol. II, F. P. TREADWELL AND W. T. HALL, (*1*)Ja179, (*2*)2593.
35 Quantitative Analysis, The Fundamentals of—, 3rd ed., W. C. BLASDALE, (*1*) My1003.
36 Quantitative Analysis, The Theory and Technique of—, M. FARNSWORTH, (*1*) Mr588, (*2*)3173.
37 *Quantitative Calculations—See* **A4.**
38 *Ultra-Violet Light—See* **A10.**
39 *Vegetable Alkaloids—See* **A2.**
40 Volumetric Analysis. I. The Theoretical Principles of Volumetric Analysis, I. M. KOLTHOFF, H. MENZEL, AND N. H. FURMAN, (*1*)Mr594, (*2*)My1615.
41 Volumetric Analysis. II. Practical Volumetric Analysis, I. M. KOLTHOFF, H. MENZEL, AND N. H. FURMAN, (*1*)N2069.

**B: Biological**

1 Activity, Muscular—, A. V. HILL, (*3*)Mr477.
2 Amino Acids, The Biochemistry of the—, H. H. MITCHELL AND T. S. HAMILTON, (*4*)Je612.
3 Bacteria, Physiology and Biochemistry of—, Vol. I, R. E. BUCHANAN AND E. I. FULMER, (*3*)Mr467.
4 Bacteriology, Practical—, An Introduction to Bacteriological Technic, F. W. TANNER, (*4*)Ja94.
5 Biochemistry, Textbook of—, A. T. CAMERON, (*1*)Ja182.
6 *Biochemistry of the Amino Acids—See* **B2.**
7 *Biochemistry of Bacteria—See* **B3.**
8 Biologischen Arbeitsmethoden, Handbuch der— (Handbook of Biological Methods), Vol. I, Part II, Second Half, E. ABDERHALDEN, (*2*)D3685, (*3*)Ja160.
9 *Biology and Colloid Chemistry—See* **C11.**
10 Blood and Urine Chemistry, R. B. A. GRADWOHL AND I. E. GRADWOHL, (*1*)Ap818, (*4*)Ag801.
11 *Brewing Industry—See* **B20.**
12 Cell Phenomena, Mechanism of Enzyme Action and Associated—, F. F. NORD, (*1*)O1840.

13 Chemistry, Pharmaceutical and Medical—, 6th ed., S. P. SADTLER, J. HOSTMANN, AND F. P. STROUP, (*2*)Mr962.
14 Chemistry of Plant Products, An Introduction to—, 4th ed., Vol. I, P. HAAS AND T. G. HILL, (*4*)F194.
15 Chemistry of Plant Products, Metabolic Processes. An Introduction to the—, 2nd ed., Vol. II, P. HAAS AND T. G. HILL, (*1*)N2066, (*4*)N1150.
16 *Chemistry of Bacteria—See* **B3.**
17 Crime, The History of a—against the Food Law, H. W. WILEY, (*4*)N1149.
18 Diet, Wheat Flour and—, C. O. SWANSON, (*4*)F194.
19 Elektrizität and Eiweisse, insbesondere des Zellplasmas (Electricity and Proteins, with Especial Reference to Protoplasm), H. PFEIFFER, (*2*)S2846.
20 Enzymatische Technologie der Gärungsindustrien (Enzyme Technology of the Brewing Industry), A. HESSE, (*4*)S889.
21 *Enzyme Action and Cell Phenomena—See* **B12.**
22 Enzyme Action and Properties, E. WALDSCHMIDT-LEITZ AND R. P. WALTON, (*1*)Ap815, (*2*)Jy2282, (*3*)N1851, (*5*)F98.
23 *Food Law, The History of a Crime against the—See* **B17.**
24 Hormone and Innere Sekretion (Hormones and Internal Secretion), F. LAQUER, (*2*)Ja322.
25 *Medicine and Colloid Chemistry—See* **C11.**
26 *Metabolic Processes—See* **B15.**
27 *Muscular Activity—See* **B1.**
28 Pectic Substances of Plants, A Critical and Historical Study of the—, M. H BRANFOOT (M. H. CARRÉ), (*4*)D1303.
29 *Physiology of Bacteria—See* **B3.**
30 *Plant Products, Chemistry of—See* **B14** and **B15.**
31 *Plants, Pectic Substances of—See* **B28.**
32 *Proteins—See* **B19.**
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34 Thyroxine, E. C. KENDALL, (*4*)Mr291.
35 *Urine Chemistry—See* **B10.**
36 *Wheat Flour and Diet—See* **B18.**

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3 *Adsorption—See* **C69.**
4 Adsorption and Kapillarkondensation (Adsorption and Capillary Condensation), E. HÜCKEL, (*3*)F320.
5 Aluminates of Calcium, The Sulpho—, W. LERCH, F. W. ASHTON, AND R. H. BOGUE, (*1*)My1007.
6 Anisotropen Flüssigkeiten, Die—(Anisotropic Liquids), C. W. OSEEN, (*2*)O3174.
7 Anorganische Chemie, Gmelin's Handbuch der—(Gmelin's Textbook of Inorganic Chemistry), 8th ed., Eisen (Iron), R. J. MEYER, (*2*)D3679.
8 Do. Natrium (Sodium), R. J. MEYER, (*2*)Ap1296.
9 Do. Radium, O. ERBACHER, (*2*)Ap1297.
10 *Antimony—See* **C35.**
11 Applied Colloid Chemistry, Theoretical and—, Vol. II, Biology and Medicine, J. ALEXANDER, (*3*)Ag1273, (*4*)F194, (*5*)Mr167.
12 *Arsenic—See* **C35.**

13 Atlas der Letzten Linien der Wichtigsten Elemente (Atlas of the Persistent Lines of the Most Important Elements), F. LÖWE, (*2*)F641, (*4*)Ag801.
14 Atomic Structure as Modified by Oxidation and Reduction, W. C. REYNOLDS, (*2*) Mr958, (*3*)Ja159.
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16 Atomstruktur and Atombindung (Atomic Structure and Atomic Linkage), J. STARK, (*2*)F641, (*3*)Ap640.
17 Bandenspektra und ihre Bedeutung für die Chemie (Line Spectra and Their Significance in Chemistry), R. MECKE, (*3*)O1632, (*4*)Jy710.
18 *Bases—See* **C**1.
19 *Biology and Colloid Chemistry—See* **C**11.
20 *Bismuth—See* **C**35.
21 Brief Course in Chemistry, A—, L. C. NEWELL, (*1*)N2068.
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25 *Carbon Disulfide—See* **C**175.
26 Catalysis, A General Discussion on Homogeneous—Held by the Faraday Society, September, 1928, FARADAY SOCIETY, (*3*)Je959.
27 *Chemical Calculations—See* **A**3, **K**5, and **C**167.
28 Chemical Constitution, Crystal Structure and—. A General Discussion Held by the Faraday Society, March, 1929, FARADAY SOCIETY, (*3*)D2030.
29 *Chemical Analysis, Photometric—See* **A**20.
30 *Chemical Mass Action—See* **C**102.
31 Chemical Reactions and Their Equations, I. W. D. HACKH, (*1*)F402.
32 Chemie, Kurzes Lehrbuch der—in Natur und Wirtschaft. Band I. Allgemeine Chemie. Band II. Organische Chemie (A Short Treatise on Chemistry in Nature and Human Affairs. 2nd ed., Vol. I. General Chemistry. Vol. II. Organic Chemistry), C. OPPENHEIMER AND J. MATULA, (*2*)F640.
33 Chemistry, W. H. BARRETT, (*3*)Mr478.
34 *Chemistry, A Brief Course in—See* **C**21.
35 Chemistry, A Comprehensive Treatise on Inorganic and Theoretical—, Vol. IX, Arsenic, Antimony, Bismuth, Columbium, Tantalum and Vanadium, J. W. MELLOR, (*2*)My1614, (*3*)Jy1109, (*4*)My513, (*5*)My300.
36 Chemistry, A Textbook of Inorganic—, Vol. XI. Organometallic Compounds, Groups I to IV, K. N. FRIEND, A. E. GODDARD, AND D. GODDARD, (*5*)My300.
37 Chemistry, College—, N. E. GORDON, (*2*)Mr954.
38 Chemistry, Colloid—, 2nd ed., THE SVEDBERG, (*1*)Ja183, (*2*)O3175, (*3*)Mr471.
39 *Chemistry, Colloid—See* **C**11.
40 Chemistry, Formulas and Symbols in—, R. M. CAVEN AND J. A. CRANSTON, (*2*)Ap 1297.
41 Chemistry, Fundamentals of—, C. W. GRAY, (*1*)My1002.
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46 *Chemistry, Inorganic—See* **C**7 and **C**35.
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56 Chemistry, Textbook of—for Nurses and Students of Home Economics, 2nd ed., A. T. MACLEOD, (*1*)Ja182.
57 *Chemistry, Theoretical—, See* C35, C48, and C160–165.
58 Chimie Générale Leçons sur la—(Lessons in General Chemistry), R. DUBRISAY, (*2*)Je1953.
59 Collected Works of J. Willard Gibbs, The—, 2 vols., W. R. LONGLEY AND R. GIBBS VAN NAME, (*1*)Mr591, (*2*)F639, (*3*)D2028.
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67 Colloidal Salts, The—, H. B. WEISER, (*3*)Ja154, (*5*)Ag494.
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69 Colloid Mill, Mechanochemistry and the—Including the Practical Applications of Fine Dispersion, P. M. TRAVIS, (*3*)F317, (*5*)D745.
70 Colloid Symposium Monograph, Vol. VI, H. B. WEISER, (*1*)F405, (*3*)Ap633, (4)Ja 92 and S888.
71 *Colloids—See* C4.
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74 *Condensation and Adsorption—See* C4.
75 Conduction of Electricity through Gases. Vol. I. General Properties of Ions, Ionization by Heat and Light. 3rd ed., J. J. THOMSON AND G. P. THOMSON; (*4*)My512.
76 *Corrosion—See* C121.
77 Corrosion of Metals, The— Part I. General Theory, W. PALMAER, (*2*)O3172.
78 *Crystal Structure—See* C28.
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81 Dispersoidanalyse. Die Methoden der Teilchengrössenbestimmung und Ihre Theoretischen Grundlagen (Analysis of Dispersoids. Methods for the Determination of the Size of Colloidal Particles and the Theoretical Considerations Involved), F. V. VON HAHN, (*2*)N3516.
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84 *Electromotive Force—See* C86.
85 Elektrolyte, Über Lösungs- und Verdünnungswärmen einiger starker—(Heats of Solution and Dilution of Some Strong Electrolytes), E. LANGE, (*2*)F642.
86 Elektrolyten, Messungen Elektromotorischer Kräfte Galvanischer Ketten mit

Wässerigen—(Measurements of the Electromotive Forces of Galvanic Cells with Aqueous Electrolytes), 2nd vol. supp., C. DRUCKER, (*2*)Jy2280.
87 *Elements, Persistent Lines of—See* C13.
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89 Emulsionen, Technik der—(Technical Treatment of Emulsions), O. LANGE, (*4*) Ag802.
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111 Hydrogen-Ion Control, The A B C of—, 5th ed., W. A. TAYLOR, (*1*)Ap818.
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122 *Laboratory Manual—See* C94.
123 Laboratory Manual Arranged to Accompany the Third Addition of "A Course in General Chemistry," WM. MCPHERSON, WM. E. HENDERSON, AND WM. L. EVANS, (*1*)Mr591.
124 Laboratory Manual in General College Chemistry, J. A. BABOR AND A. LEHRMANN, (*1*)D2309.

125 Laboratory Manual of General Chemistry, A—, L. B. RICHARDSON AND A. J. SCARLETT, JR., (*1*)Ja177.
126 Laboratory Outline of Smith's College Chemistry, J. KENDALL, (*1*)N2068.
127 Laboratory Manual of Elementary Physical Chemistry, A—, E. MACK, JR., AND W. G. FRANCE, (*3*) Jy1120.
128 *Laboratory Manual in Physical Chemistry—See* C164.
129 *Law of Mass Action—See* C102.
130 *Leçons sur la Chimie Générale—See* C58.
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132 *Light—See* C75.
133 *Lines of Most Important Elements, Persistent—See* C13.
134 *Liquids, Anisotropic—See* C6.
135 Liquids, The Viscosity of—, E. HATSCHEK, (*3*)Ap640.
136 *Mass Action—See* C102.
137 *Massenwirkung, Das Gesetz der Chemischen—See* C102.
138 Matter, Electricity, Energy. The Principles of Modern Atomistics and Experimental Results of Atomic Investigation, W. GERLACH AND F. J. FUCHS, (*2*)Je1953.
139 *Measurement and Weighing—See* C142.
140 *Mechanochemistry—See* C69.
141 *Medicine and Colloid Chemistry—See* C11.
142 Messen und Wägen, ein Lehr- und Handbuch insbesondere für Chemiker (Measurement and Weighing, a Text and Handbook, Especially for Chemists), W. BLOCK, (*2*)My1616.
143 *Metallic Compounds, Organo—See* C36.
144 *Metals, Properties of—See* A8.
145 *Metals, Corrosion of—See* C121.
146 Molecular Rearrangements, C. W. PORTER, (*1*)Ja181, (*2*)My1619, (*4*)F193.
147 *Molecular Structure—See* C113.
148 Molecular Weights in the Vapor State from Vapor Pressure and Evaporation Data, Determination of—, E. W. WASHBURN, (*1*)My1006.
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150 *Monograph on Colloids—See* C71.
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153 *Non-Metals, Properties of—See* A8.
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156 *Phase Rule—See* C59.
157 Photochemische Versuchtechnik (Photochemical Technic), J. PLOTNIKOW, (*3*) O1630.
158 *Photometric Chemical Analysis—See* A20.
159 *Physical Chemistry—See* C48.
160 Physical Chemistry, Elementary—, F. S. TAYLOR, (*1*)Ja180.
161 Physical Chemistry, Elements of—, J. M. BELL AND P. M. GROSS, (*1*)S1599, (*2*)O3175.
162 Physical Chemistry, Theoretical and Experimental—, J. C. CROCKER AND F. MATTHEWS, (*3*)Jy1115.
163 Physikalische Chemie der Silikate (Physical Chemistry of the Silicates), W. EITEL, (*3*)Ag1277.
164 Physikalische-Chemische Praktikumsaufgaben (Experiments in Physical Chemistry), A. EUCKEN AND R. SUHRMANN, (*2*)Mr956, (*3*)My800.

165 Physikalischen Chemie, Lehrbuch der—(Textbook of Physical Chemistry), Vol. II, Parts II and III, K. JELLINEK, (*3*)Ap639.
166 *Polar Molecules—See* C149.
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**G. N. Lewis Receives One of Royal Society Medals.** The Royal Society's highest honor in chemistry, the Davy medal, will be conferred upon Prof. G. N. Lewis, of the University of California, for his contributions to classical thermodynamics and the theory of chemical valence. Prof. Lewis is a pioneer in the study of atom structure and his researches have allowed chemists to know more precisely what happens when substances come together. The Davy medal was founded by the brother of the famous Sir Humphry Davy and is given annually for the most important discovery in chemistry in Europe, the United States, or Canada.

Prof. Max Planck, of the University of Berlin, famed as the originator of the quantum theory, has been awarded the Copley medal of the Royal Society for his contributions to theoretical physics.

Another German, Prof. Hans Geiger of Kiel University, whose atom counter is being used in laboratories all over the world, was given the Hughes medal by the Royal Society for the development of methods of counting alpha and beta particles.

The two Royal medals, which have been awarded annually since their establishment by George IV, were awarded Prof. J. E. Littlewood, of Cambridge, for his work on mathematical analysis and Prof. Robert Muir, Glasgow immunologist, for his medical work.—*Science Service*

**Irradiating Chocolate Now Being Tested.** A way to irradiate chocolate so that its flavor is not impaired has been discovered by two Austrian scientists, Drs. S. Reid and H. Krasso. Rats fed on this chocolate gained in weight. Patients enjoyed it and showed improvement in appetite and general condition and a gain in weight. The chocolate was fed as milk chocolate and as a beverage made with milk.

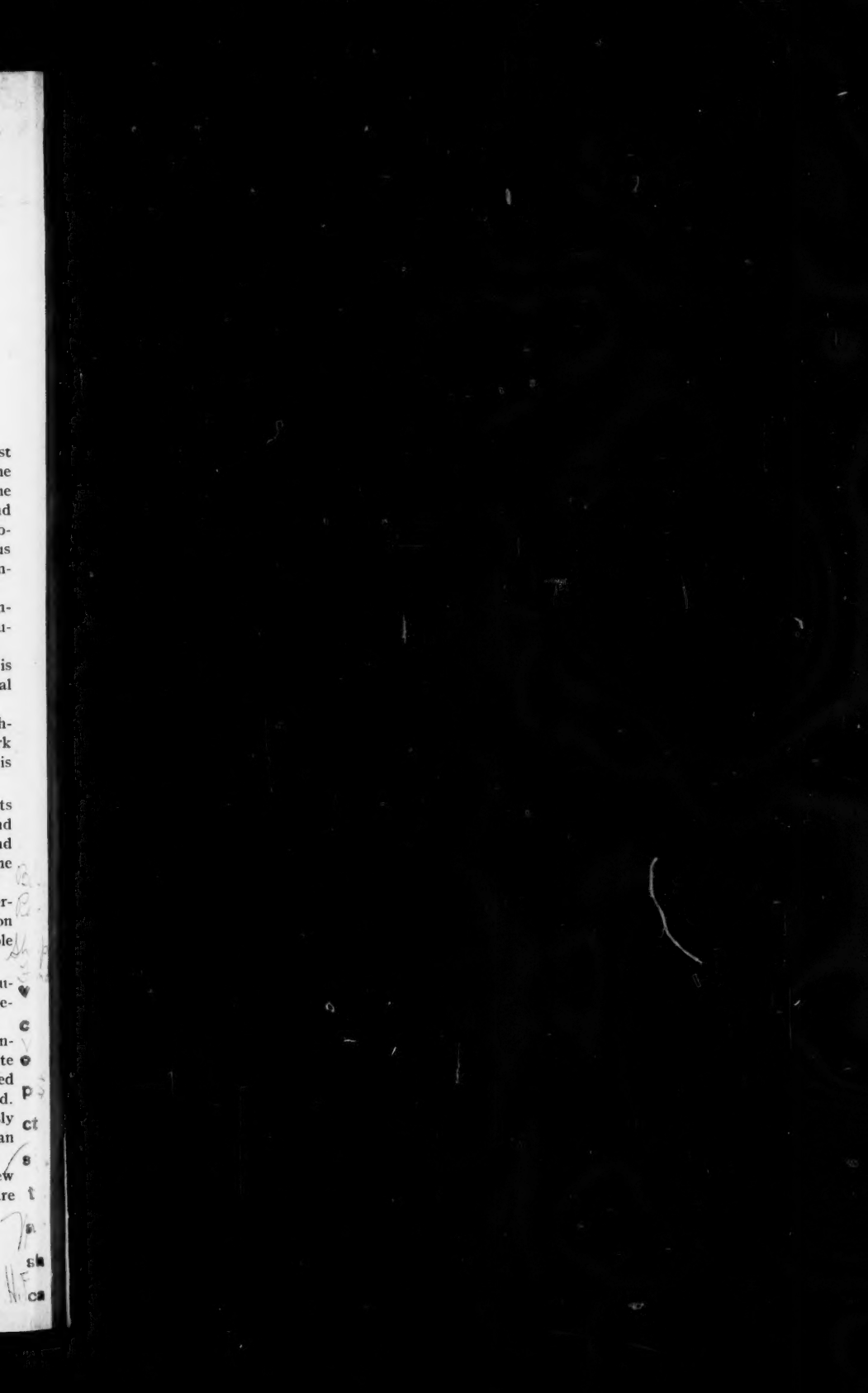
Most of the patients to whom this chocolate was given were suffering from tuberculosis. A few suffering from secondary anemia showed improvement in the condition of their blood. Dr. Krasso also suggests that irradiated chocolate might prove valuable in the treatment of disease of the bones, such as rickets.—*Science Service*

**Find Lead Poisoning in Brass and Bronze Industries.** Lead poisoning as an occupational disease of the brass and bronze industries was discussed at the recent Minneapolis meeting of the American Public Health Association.

Of 38 men engaged in the founding of high-lead bronze who were sent to the Montreal General Hospital for various complaints, 24 were found to be suffering from acute lead poisoning, 9 others showed different evidence of lead absorption and only 5 showed no signs of lead poisoning, Drs. Frank G. Pedley and R. V. Ward of Montreal reported.

"It is our belief that lead plays an important part in the disease picture variously diagnosed as brass poisoning, bronze poisoning, and copper poisoning," the Canadian scientists stated.

Examination of men engaged in polishing low-lead brass and bronze, and a review of the literature, showed many cases of chronic disability, in which the symptoms are much like those of lead poisoning.—*Science Service*



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